



## Limit of Sanity

by Arya Akhavan (December 2014)

Angles for R.I. = 1.520

105 + 20 girdles = 125 facets

4-fold, mirror-image symmetry

120 index

$L/W = 1.000$   $T/W = 0.373$   $U/W = 0.373$

$P/W = 0.514$   $C/W = 0.249$

$Vol./W^3 = 0.299$

### PAVILION

P1	44.82°	014-016-044-046-074-076-104-106	Cut to centerpoint.
P2	44.50°	013-017-043-047-073-077-103-107	Meet at culet.
G1	90.00°	008-022-038-052-068-082-098-112	Set stone size.
P3	66.34°	008-022-038-052-068-082-098-112	Level girdle.
P4	66.34°	007-023-037-053-067-083-097-113	Meet P1, P2, P3
P5	71.21°	120-030-060-090	Meet P2, P4
G2	90.00°	007-023-037-053-067-083-097-113	Level girdle.
G3	90.00°	120-030-060-090	Level girdle.
P6	44.58°	015-045-075-105	Meet P1, G1, P3
P7	42.50°	012-018-042-048-072-078-102-108	Meet P2, P4, P5

### CROWN

C1	61.81°	120-030-060-090	Set girdle width.
C2	55.30°	007-023-037-053-067-083-097-113	Level girdle.
C3	51.84°	008-022-038-052-068-082-098-112	Level girdle; meet C1, C2
C4	45.99°	010-020-040-050-070-080-100-110	Meet G1, C3
C5	33.28°	120-030-060-090	Meet C1, C2, C3
C6	28.19°	005-025-035-055-065-085-095-115	Meet C3, C4, C5
C7	20.75°	120-030-060-090	Meet C5, C6
C8	36.21°	015-045-075-105	Cut step such that C3 width = C4 width.
C9	24.90°	015-045-075-105	Meet C4, C6, C7
C10	15.00°	015-045-075-105	Meet C6, C7, C9
T	0.00°	Table	Meet C7, C10

I like overly complicated designs, designs for large stones, checkerboards, pseudobarion-ish designs, and parallel bars all over my designs. After messing around with "Sierpinski's Partial Second" and "Moar Dakka", I ended up with a design that pushes absolutely all of my buttons, and I absolutely love it. Works in materials from orthoclase to rutile (RI = 1.52 - 2.62), but should be a knockout in giant, pale CZ.

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